

**Figure 1-A**

		Experiment Number			
		Experiment 1	Experiment 2	Experiment 3	Experiment 4
Sample Number	Genotype 1	13	27	5	52
	Genotype 2	38	54	28	50
	Genotype 3	18	36	17	60
	Genotype 4	17	25	7	50

**Figure 1-B**

	G1	G2	G3	G4
G1	100			
G2	68	100		
G3	77	96	100	
G4	97	85	72	100

**Figure 1-C**

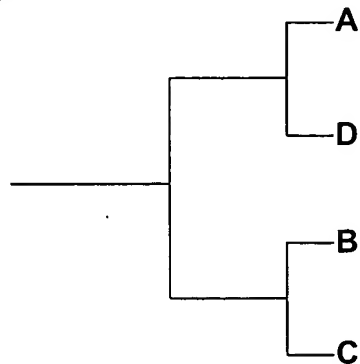


FIGURE 2-A

	G1	G2	G3
G1	100		
G2	97	100	
G3	70	86	100

S<sub>1</sub>

	G1	G2	G3
G1	100		
G2	93	100	
G3	76	80	100

S<sub>2</sub>

$$S_c = \frac{S_1 + S_2}{2}$$

	G1	G2	G3
G1	100		
G2	95	100	
G3	73	83	100

S<sub>c</sub>

FIGURE 2-B

	G1	G2	G3
G1	100		
G2	97	100	
G3	70	86	100

S<sub>1</sub>

	G1	G2	G3
G1	100		
G2	93	100	
G3	76	80	100

S<sub>2</sub>

$$S_c = \frac{15S_1 + 6S_2}{15 + 6}$$

	G1	G2	G3
G1	100		
G2	96	100	
G3	72	84	100

S<sub>c</sub>

Figure 3-A

	Experiment 1
Genotype 1	
Genotype 2	

$$\text{Similarity coefficient} = \frac{2}{3} = 66\%$$

	Experiment 1
Genotype 2	
Genotype 3	

$$\text{Similarity coefficient} = \frac{2}{4} = 50\%$$

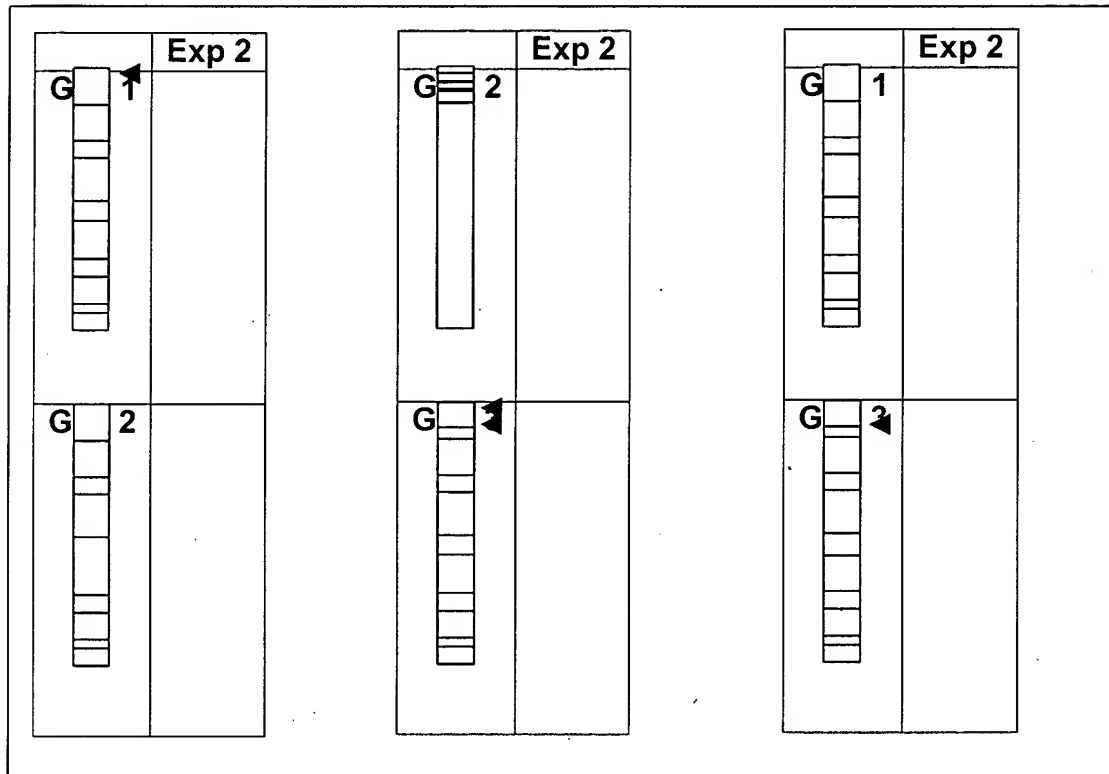
	Experiment 1
Genotype 1	
Genotype 3	

$$\text{Similarity coefficient} = \frac{3}{4} = 75\%$$

Similarity matrix

	Gen 1	Gen 2	Gen 3
Gen 1	100		
Gen 2	66	100	
Gen 3	75	50	100

Figure 3-B



[1]

[2]

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*Vauterin, et al.*

*Appl. No.: Unknown      Atty Docket: DECLE62.001A*

	Experiment 1		
	Gen 1	Gen 2	Gen 3
Gen 1	100		
Gen 2	66	100	
Gen 3	75	50	100

	Experiment 2		
	Gen 1	Gen 2	Gen 3
Gen 1	100		
Gen 2	88	100	
Gen 3	90	80	100

[3]

	Gen1	Gen2	Gen3
Gen1	100		
Gen2	$\frac{(3 \times 66) + (9 \times 88)}{3 + 9} = 83\%$	100	
Gen3	$\frac{(4 \times 75) + (10 \times 90)}{4 + 10} = 86\%$	$\frac{(4 \times 50) + (10 \times 80)}{4 + 10} = 71\%$	100

**FIGURE 4**

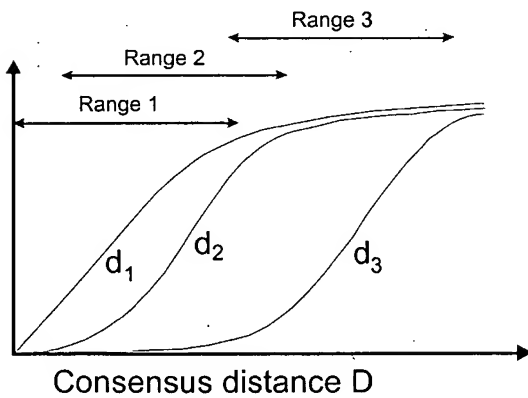


FIGURE 5A

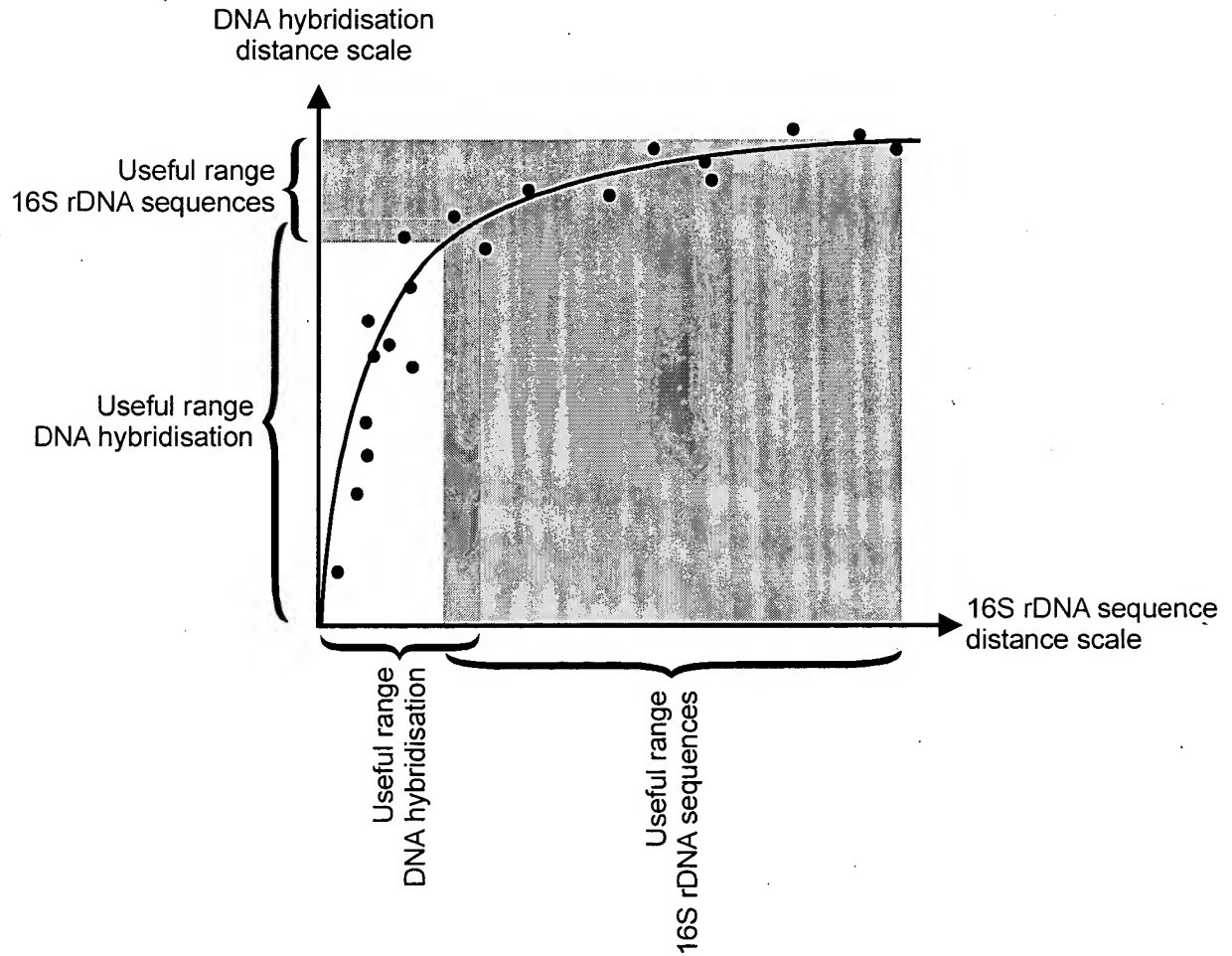


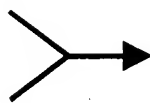
FIGURE 5B

A	100			
B	96	100		
C	90	89	100	
D	88	90	98	100

16S rDNA identity

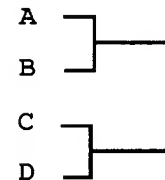
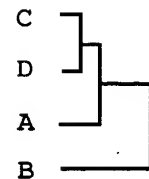
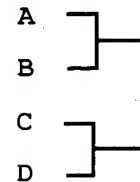
A	100			
B	80	100		
C		45	100	
D		40	88	100

DNA hybridisation homology



A	100			
B	88	100		
C	90	67	100	
D	88	65	93	100

Composite similarity matrix



**FIGURE 6**

Strain	Serotype	PFGE - XbaI					PFGE - AvrII				
STR1	A2										
STR2	A1										
STR3	A1										
STR4	A2										
STR5	A3										
STR6	A1										

**FIGURE 7**

PFGE

XbaI

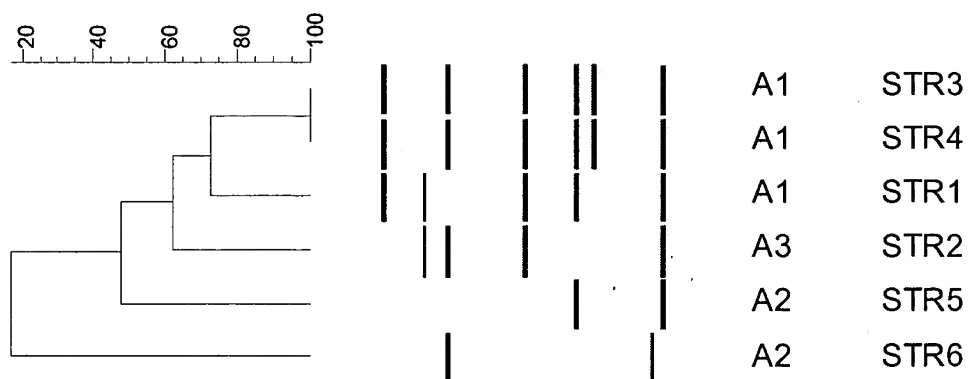




FIGURE 8

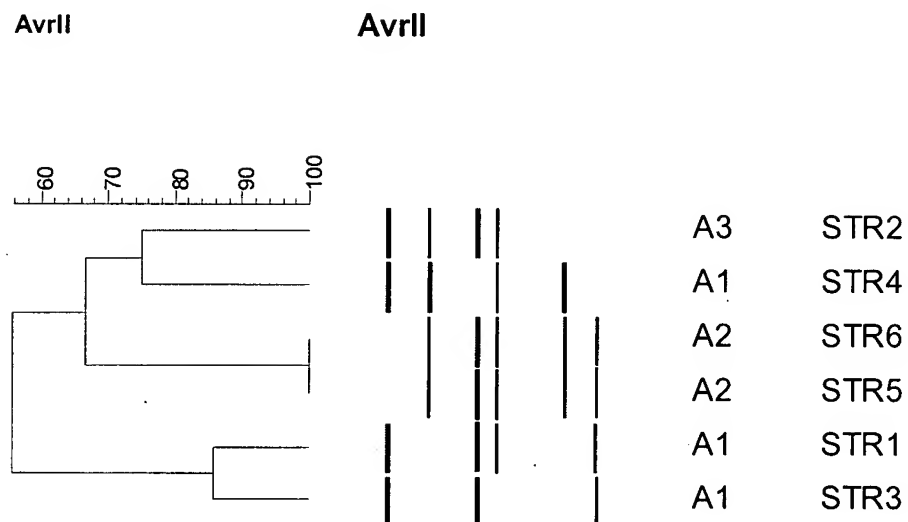


FIGURE 9

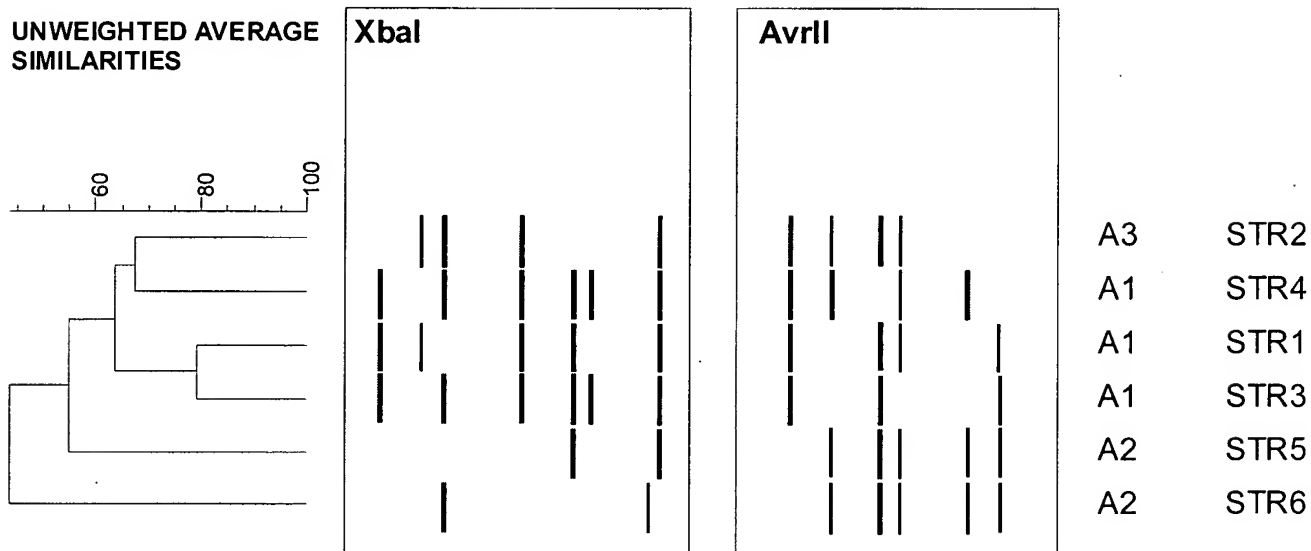
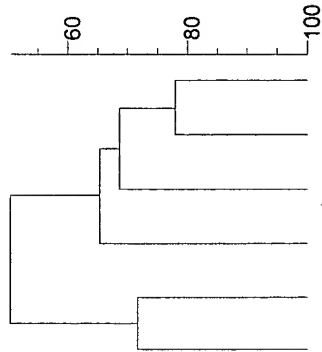
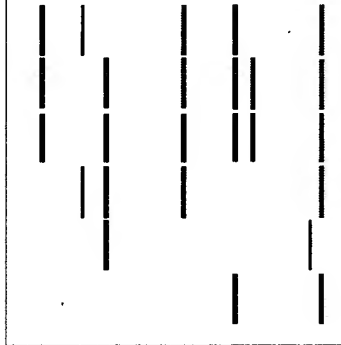


FIGURE 10

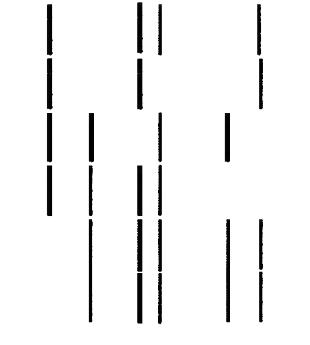
WEIGHTED AVERAGE  
SIMILARITIES



XbaI



AvrII



A1	STR1
A1	STR3
A1	STR4
A3	STR2
A2	STR6
A2	STR5

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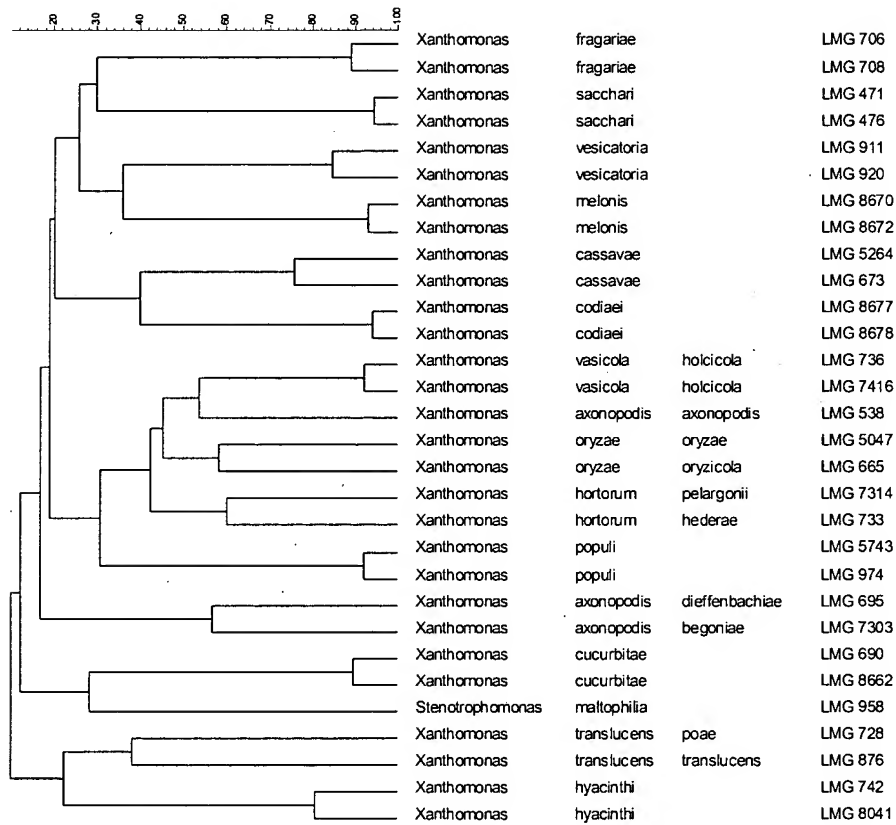
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FIGURE 11

Pearson correlation (Opt 0.30%) [3.6%-97.7%]  
AFLP



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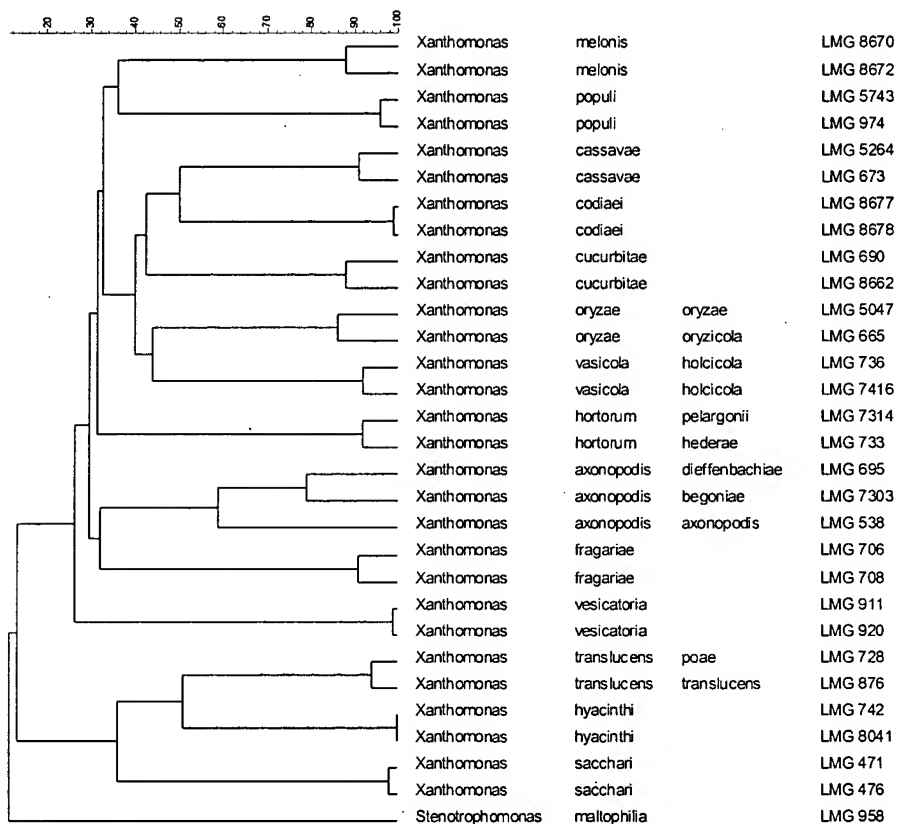
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FIGURE 12

DNA hybridization



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FIGURE 13

Pairwise (CG:100%, UG:0%) (FAST2.1.0) Gapcost:0% Disc. unk.  
16S rRNA

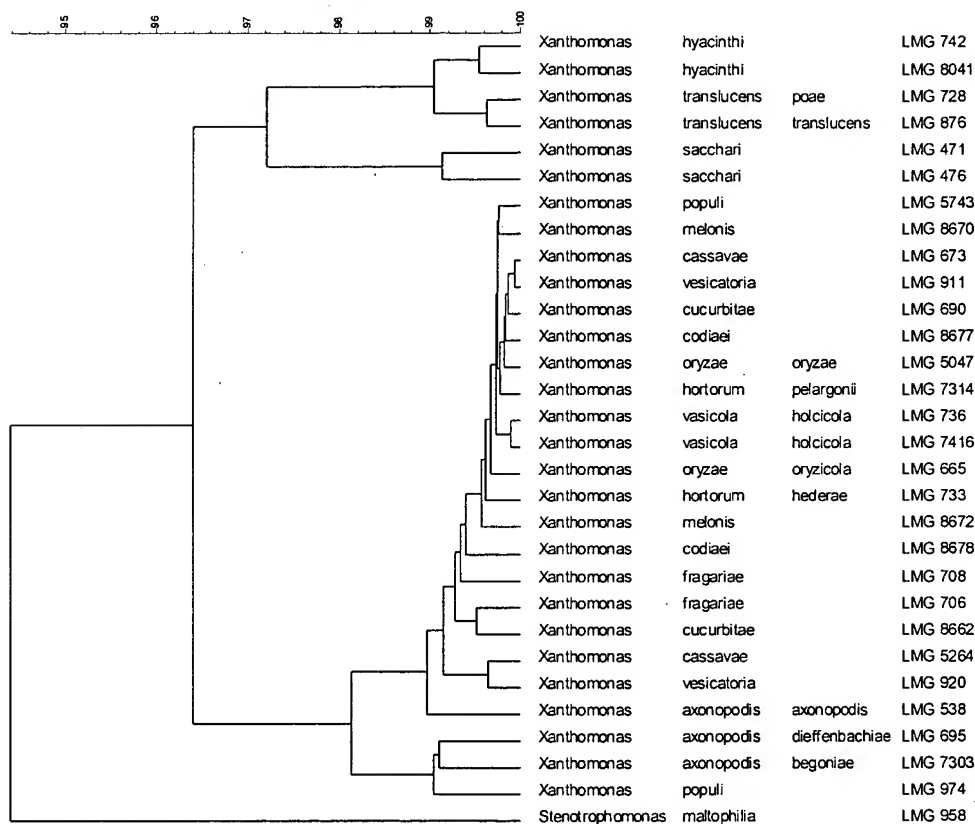
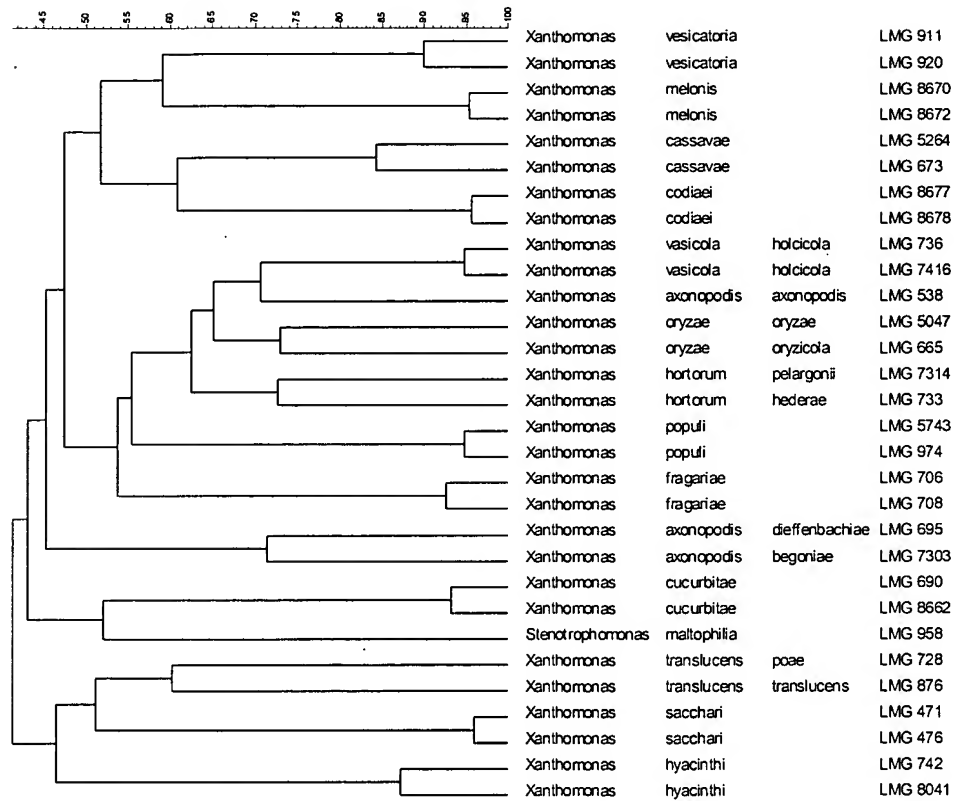


FIGURE 14

AFLP+16S rRNA+DNA hybridization  
AFLP+16S+DNA/DNA



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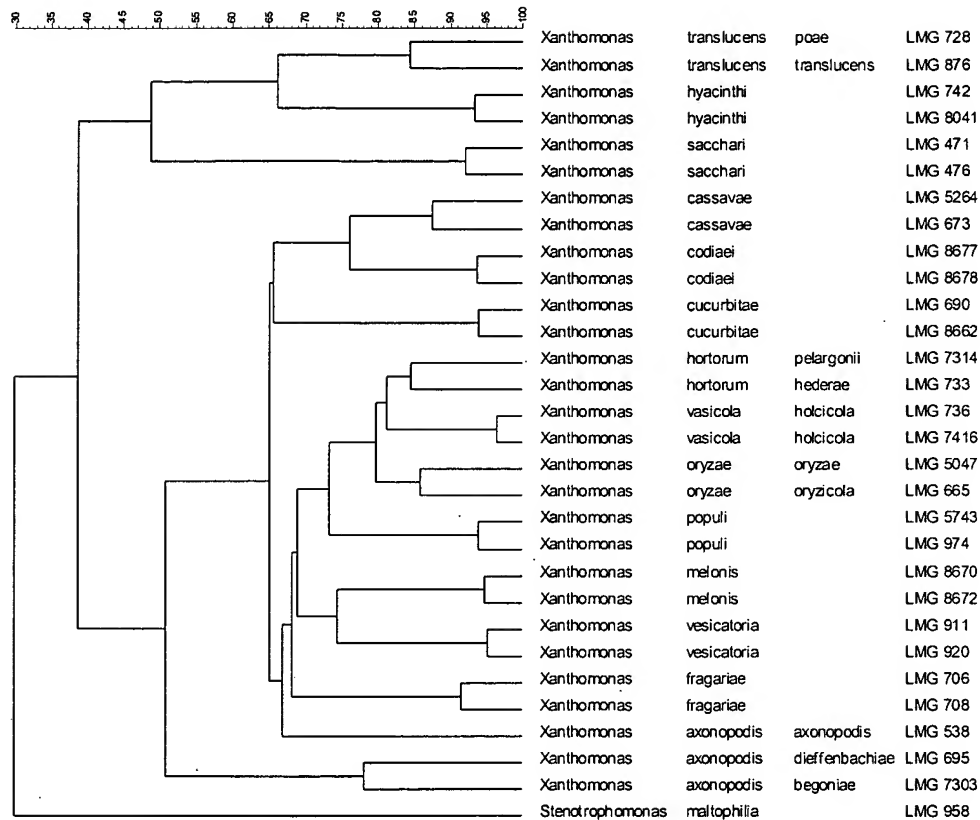
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FIGURE 15

AFLP+16S rRNA  
AFLP+16S+DNA/DNA



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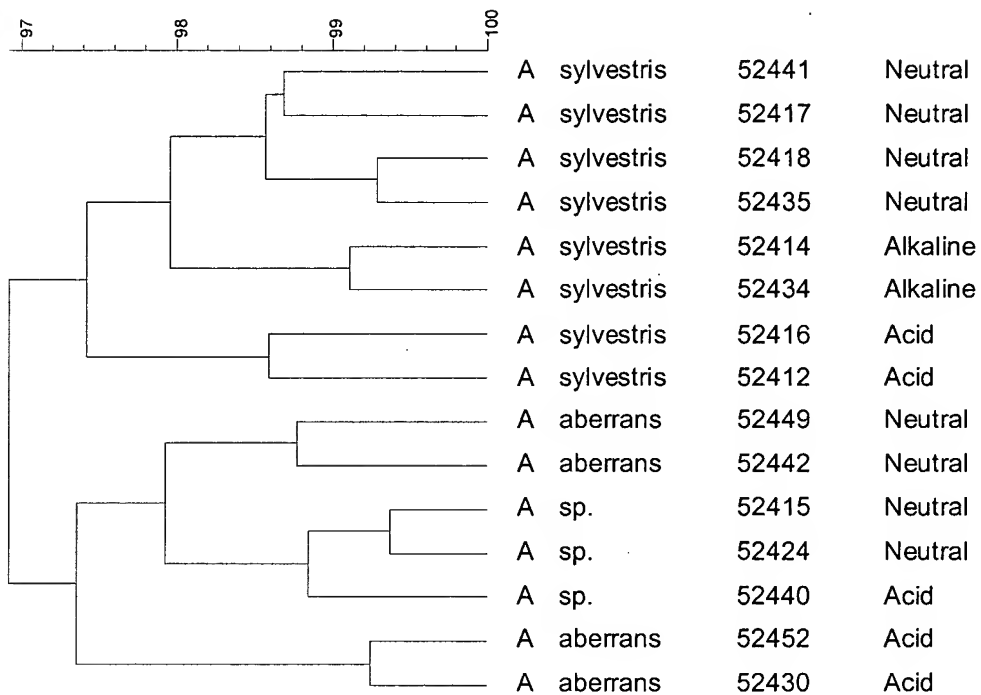
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*Atty Docket: DECLE62.001A*

**FIGURE 16**

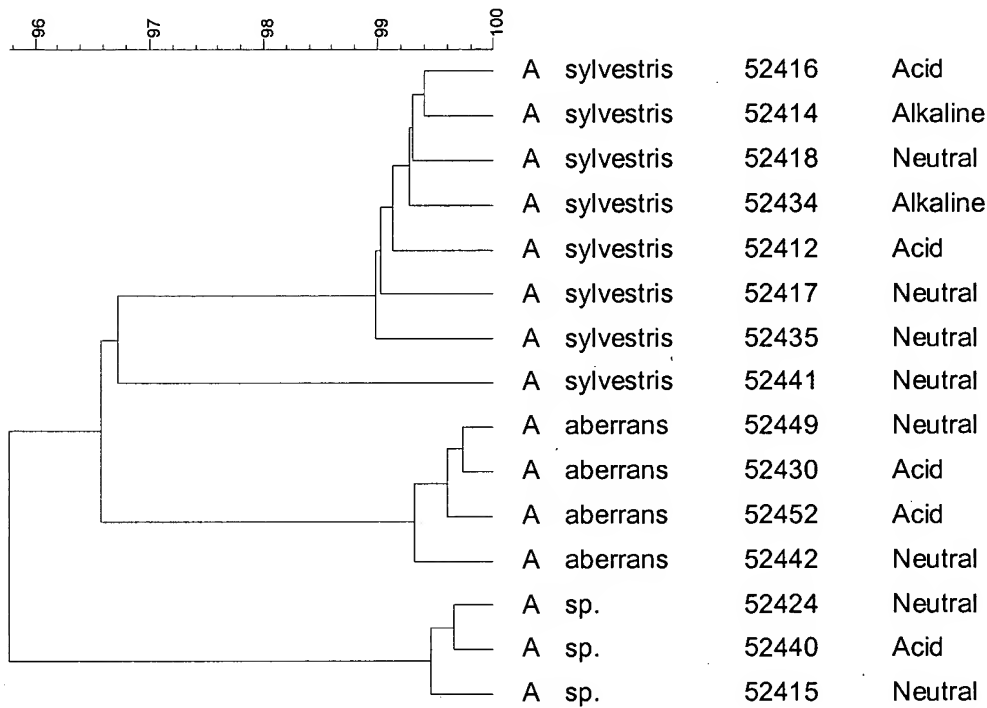
Euclidian distance  
FAME





## FIGURE 17

Pairwise (OG:100%,UG:0%) (FAST:2,10) Gapcost:0%  
Histon H3



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## FIGURE 18

FAME+Histon H3  
Composite

